



NETMEETIN

G

V3.1

PURPOSE



MSTP

To show the features of Microsoft NetMeeting and how it can be used in conjunction with other applications to enhance collaborative planning.

FEATURES OF MS NETMEETING



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- PC based
- Ala Carte – pick & choose from
 - VTC (audio & video)
 - Application sharing
 - Text based chat
 - White boarding
 - File transfer



NETMEETING CONCERNS

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- In a word, THROUGHPUT
 - Bandwidth is a scarce commodity
- How Netmeeting handles bandwidth
 - Priority
 1. Audio stream
 2. Data Stream
 3. Video stream
 - All bandwidth usage returns to zero during periods of inactivity



BANDWIDTH USAGE

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<u>Application</u>	<u>Average Bandwidth Use**</u>
Video <ul style="list-style-type: none">• Small window• Medium window• Large window	62kbps 130kbps 750kbps
Audio <ul style="list-style-type: none">• Half Duplex• Full Duplex	24kbps 38kbps
Application Sharing	16kbps
Whiteboarding	7kbps
Chat (text)	2kbps
File transfer	Will use all available

****if 100Mb/sec available**

ALLEVIATING BANDWIDTH ISSUES




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- All features can be enabled/disabled by network administrators
 - Create a custom distribution
 - Netmeeting Resource Kit Wizard
 - Use System Policies
 - Set at Server
 - Disabling features or bandwidth throttling
- Education & awareness!

NETMEETING INTERFACE

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The screenshot shows the NetMeeting application window titled "NetMeeting - 4 Connections". The interface includes a menu bar (Call, View, Tools, Help), a video window displaying the "Windows NetMeeting" logo, a list of participants, and a toolbar with various icons. Annotations with arrows point to specific features:

- Menu Items**: Points to the "Call View Tools Help" menu bar.
- Video Window**: Points to the central video display area.
- Participant(s)**: Points to the list of participants.
- Make Call**: Points to the "Make Call" icon (phone handset).
- Hang Up**: Points to the "Hang Up" icon (phone handset with a red X).
- Directory**: Points to the "Directory" icon (book).
- Short Cuts**: Points to the bottom toolbar, which includes icons for Application Sharing, Chat, Whiteboarding, and File Transfer.

The participant list shows the following names:

Name
g1 g1
g2 g2
g3 g3
g4 g4
G5 MEF

The bottom toolbar icons are:

- Application Sharing (hand pointing to a screen)
- Chat (speech bubble)
- Whiteboarding (pencil on a screen)
- File Transfer (document with a red X)

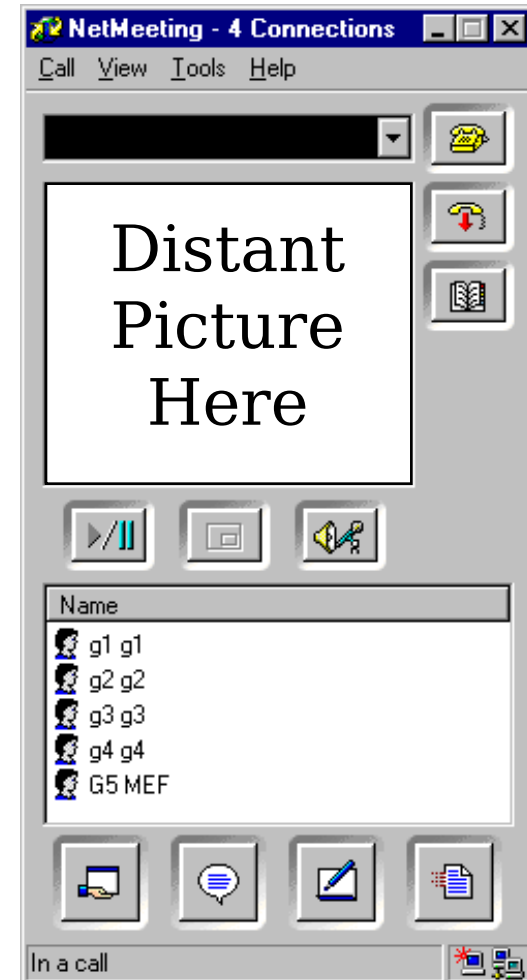
The status bar at the bottom indicates "In a call".



VTC – VIDEO & AUDIO

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- Conforms to ITU H.232 standard
- Point-to-point only
 - Multipoint if connected via an H.232 bridge
 - MS Conferencing Server

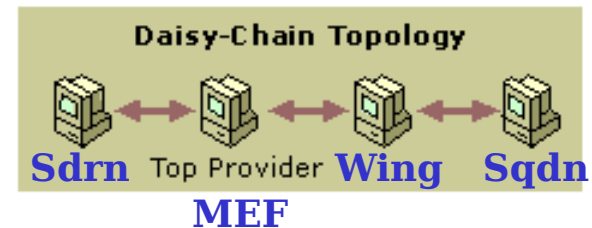
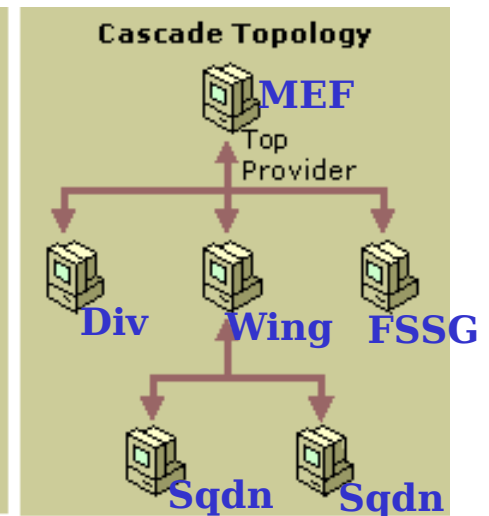
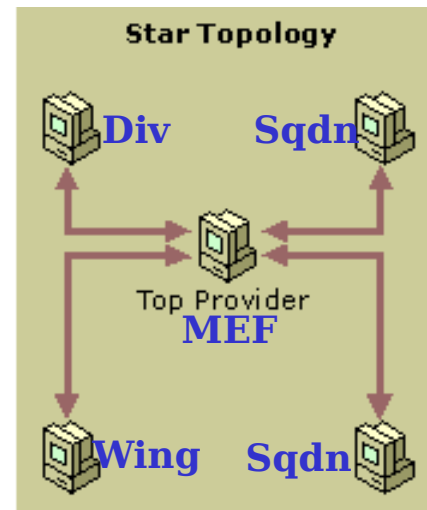




DATA CONFERENCING

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- Adheres to the ITU T.120 standard
- Point to point
- Multi-point
 - Four topologies
 - Star - Okay for within a compound
 - Cascade - Preferred over slow links
 - Daisy-Chain
 - The way you connect has bandwidth ramifications!



ESTABLISHING A CALL HIERARCHY

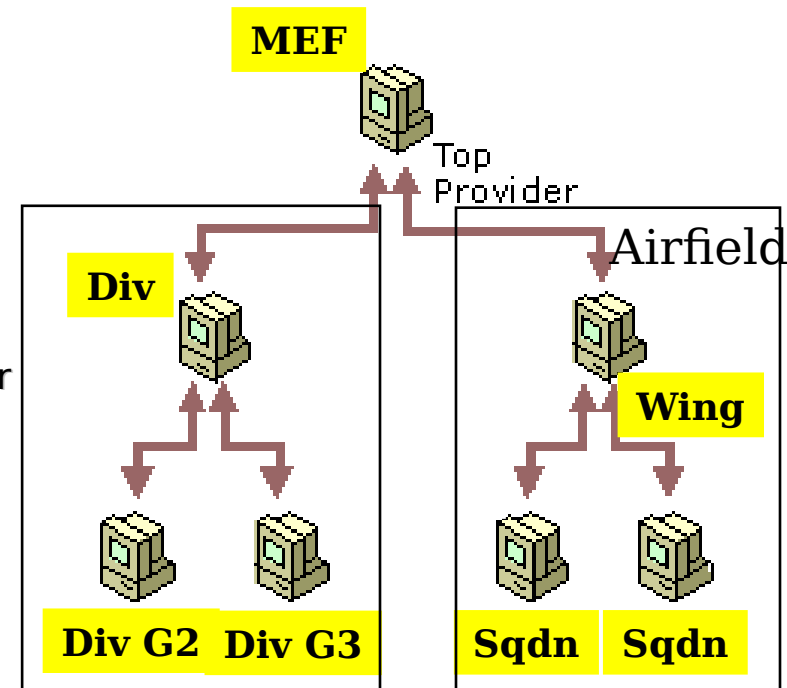


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- Data flows according to the conference topology

RULE
Only one person can join the conference at a time!

and E are also removed.



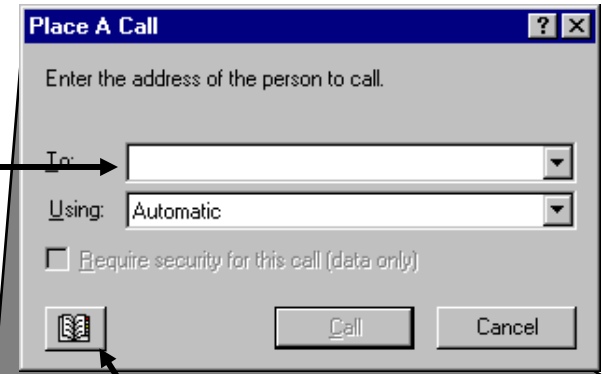


ESTABLISHING A CALL

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- Two ways
- 1. Use a directory
 - MS Internet Locator Services (ILS)
 - To use, select shortcut
- 2. Manually enter address
 - IP address
 - Ex: 132.168.24.78
 - Domain Name
 - fires0.mef.usmc.smil.mil

Manual
Address



Directory
Shortcuts



Lab Establish a Call

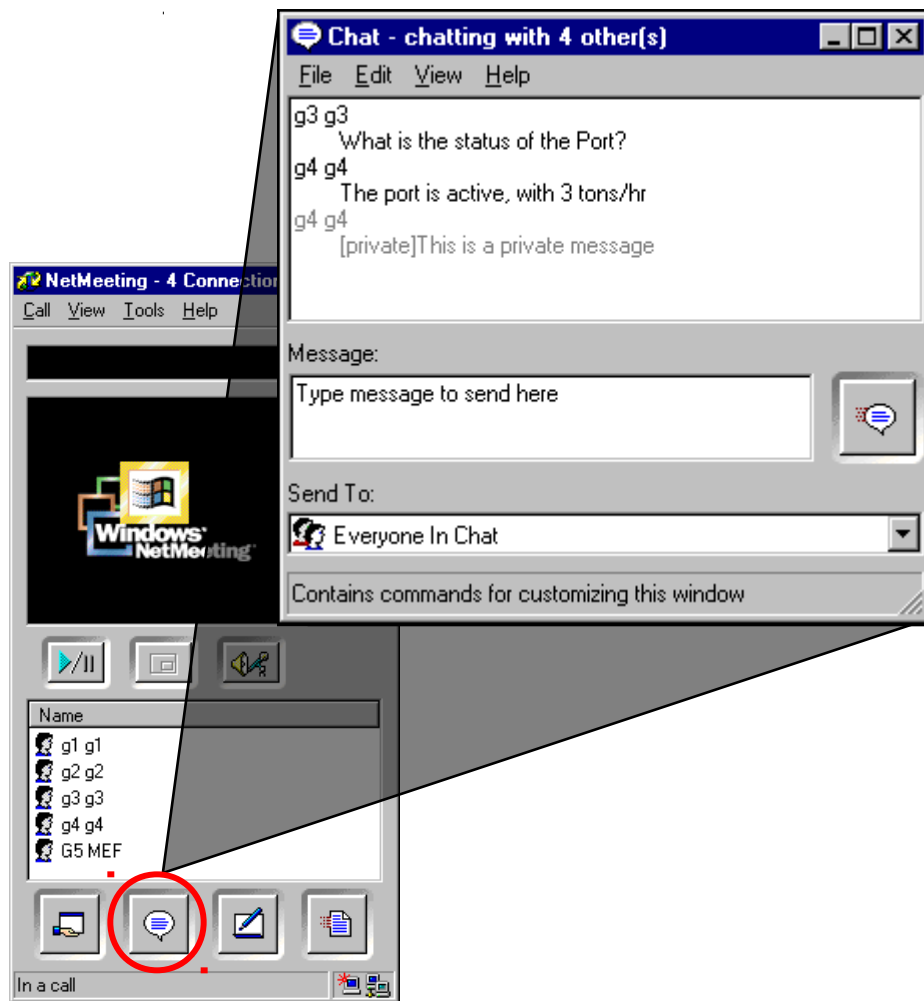
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- Using the directory, establish a Netmeeting with everyone on your table
 - *Remember, only one can join at a time*

TEXT CHAT

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- Share ideas via typed text
- Used in absence of audio
- Public or private (whisper)



Lab: Establish a Chat Session



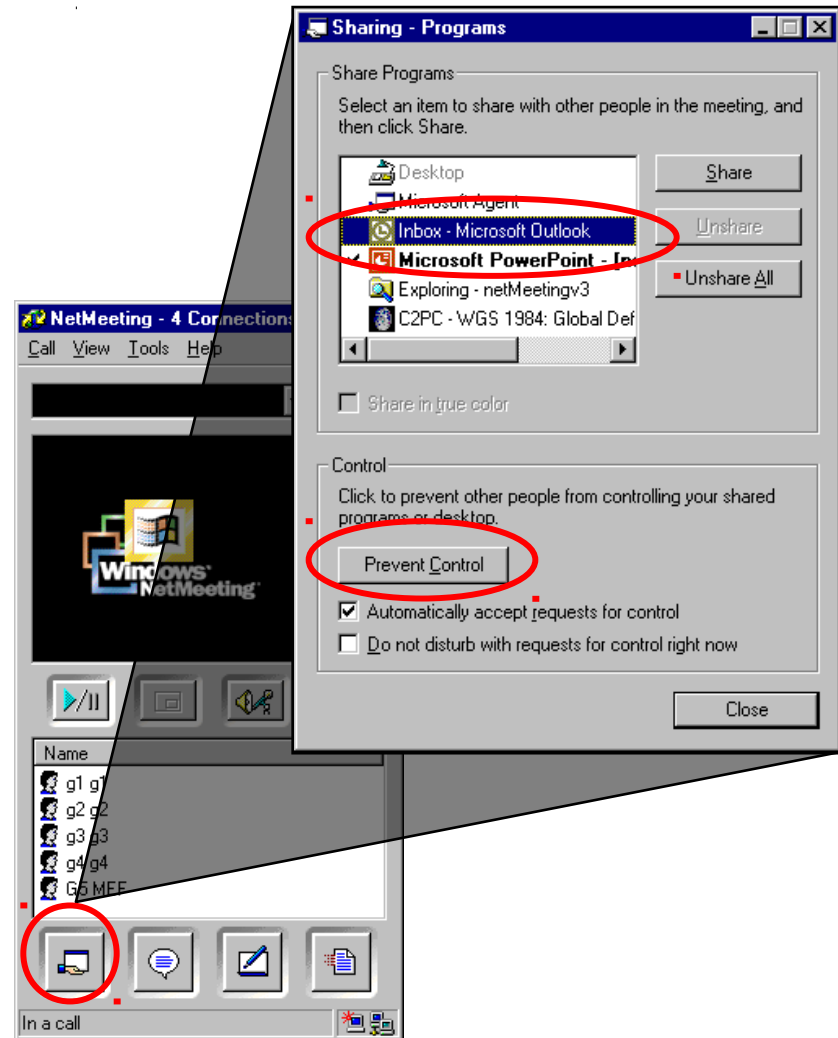
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- Launch Chat and use it to coordinate the rest of this lab

APPLICATION SHARING

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- Share Program running on one computer with others
 - Others watch
 - Others may take control
- Click shortcut
 - Select application(s) to share
 - Enable Control
 - Auto process requests





Lab – Application Sharing

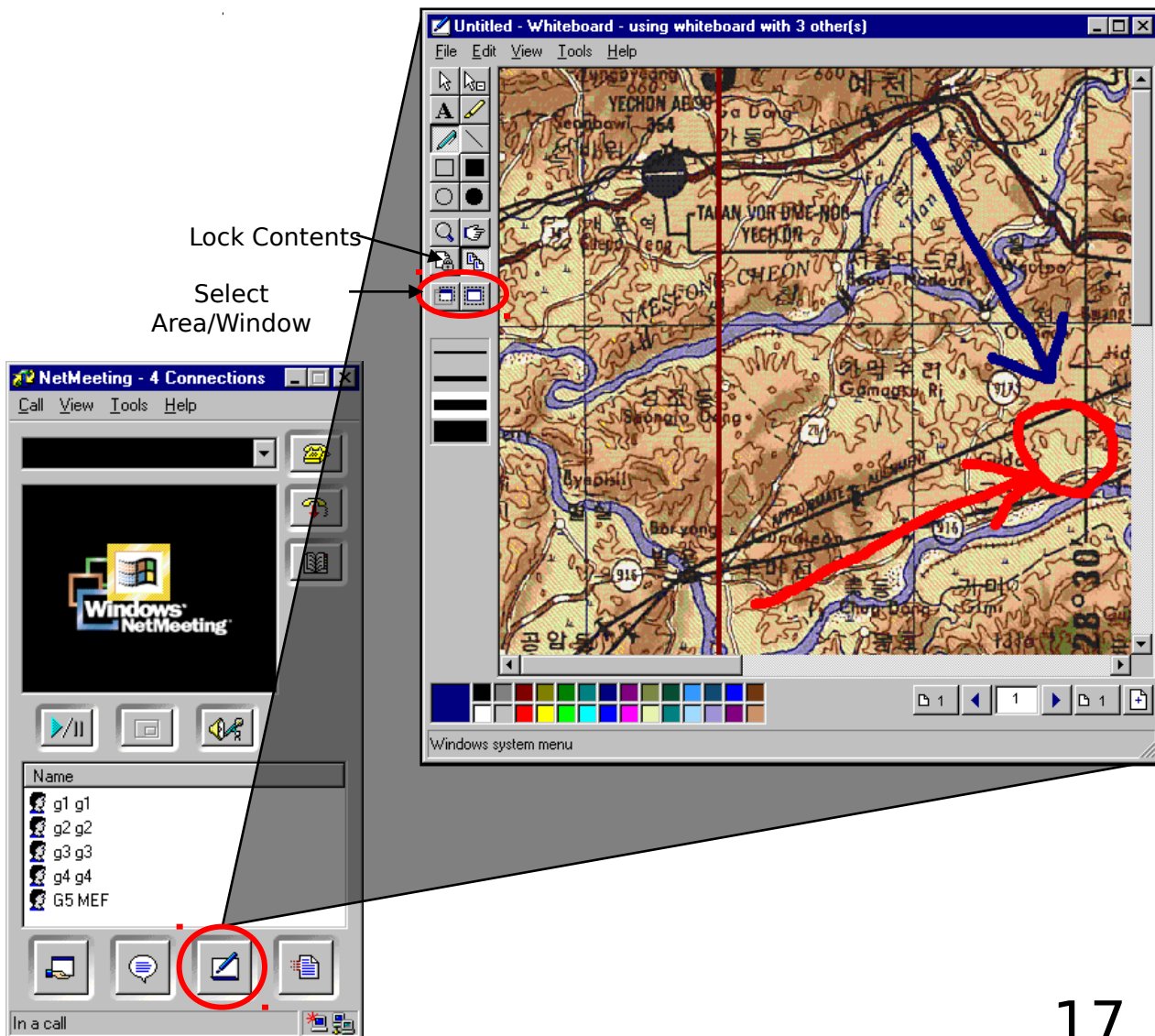
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- One person at each table select an application and share it with others
- Everyone take control of the application
- Can share more than one simultaneously

WHITE BOARDING

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- Review, create and update graphical information at multiple locations
- Select Whiteboard icon
- Select area or window to paste on canvas





Lab - Whiteboarding

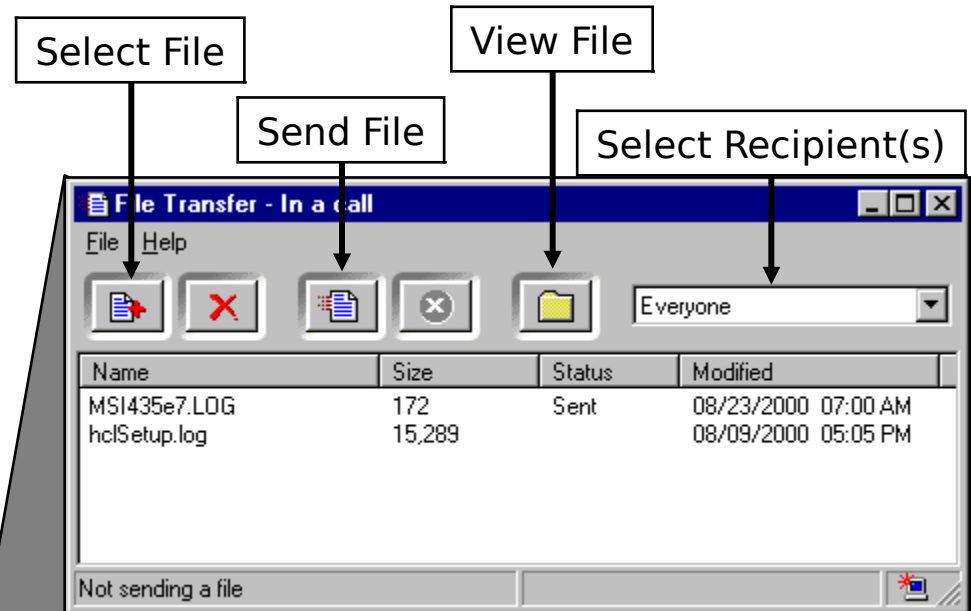
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- One member of each group do the following:
 - Go to U:/GraphicsFiles and double-click on a graphic
 - Select Whiteboarding
 - Use the “Select Area” function to paste the graphic into your whiteboard
- All take turns drawing on the canvas

FILE TRANSFER

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- Send files to one or all participants





Lab – Transfer a File

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- Launch the file transfer tool
- Select a file to transfer and transmit it to all participants



Questions